

Energy Savings Performance Contracting

Saving Facility Resources

Case Study



City of Edmonds - Phase 2



Project Description:

This project consisted of retrofit and replacement of various HVAC, plumbing, lighting, and control systems at several City of Edmonds buildings. Work included: commissioning of HVAC systems, bay door switches tied to heating controls, pipe installation and duct leaks, lighting retrofits to replace T-12 with T-8 ballasts and finiturs, traffic and pedestrian signals with LED technology, and low flow water retrofits to sinks, urinals, and water closets.

Project Completed Total: March, 2008
Project Cost: \$556,936
Project Number: GA Project #2005-217 H (2-1)

Annual Energy Project Savings:

Electrical	\$13,405	kWh	139,714
Natural Gas	\$27,743	Therms	10,575
Fuel	\$0		0
Water	\$12,512	Gallons	17,713
Maintenance	\$1,402		

Total Avoided Costs:

Guaranteed	\$44,288	Verified	\$55,063
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Funding Sources:

Loans:	\$295,380
Utility Incentives:	\$106,556
Other:	\$155,000

Project Managers:

Client Contact Information:

Noel Miller,
Manager,
City of Edmonds
(425) 744-0234

General Administration's Contact:

Donna Albert
P.E., Energy Engineer
Department of General Administration
(360) 902-7248

Energy Service Company's Contact:

Mike O'Conner,
President,
Quantum Engineering
(206) 523-5640

Highlights:

*Quantum Engineering
Monitoring and Verification Report*

Emission Reductions:

Annual Reduction in CO2:

245,016 pounds per year

Annual CO2 Reduction Represents:

- ❖ **Removing 16 Cars from the road, or**
- ❖ **Planting 33 acres of trees, or**
- ❖ **Powering 10 Homes**

Monitoring & verification report details

- Quantum Engineering provided one year detailed analysis of each conservation measure using energy management system trends as well as a detailed utility bill analysis.

Outcome:

- Overall savings exceeds projections by 21%.

Analysis:

- Based on performance of the conservation measures, the measures are functioning properly.
- Buildings included in this project: Public Works, Old Public Works, Building and Park Maintenance, South County Senior Center, Frances Adnderson Center and the Senior Center, Cemetery, Boys and Girls Club, Higtorical Museum, Granstrand, City Hall, Library, Yost Pool, Community Theater, Meadowbrook Clubhouse, Buildings and Park Maintenance facilities and the Ranger Station.

For more information: email GAEnergyTeam@ga.wa.gov
Visit our web site at <http://www.ga.wa.gov/EAS/epc/espc.htm>